CLAIMS

[Utility model registration claim]
[Claim 1] The piece of a projection which has the housing which holds a storage device and has a screw hole on one side attachment wall of this housing is prepared. The piece of folding to which a through tube is drilled in the location a little distant from the both ends of this piece of a projection, and a hollow is prepared in the wall surface of the condition of the storage device which stands face to face against these through tubes, respectively, and both ends begin to extend a little as bending at a right angle mostly, Furthermore, it has one piece of stop doubling which has the engagement pawl of the cross direction of this piece of folding which projects in the center mostly. The through-hole which lets a screw bar pass is drilled in the part which counters said screw hole of this piece of stop doubling. In said housing, the shelf which supports the edge of said storage device is formed. After making said shelf meet, sliding on said storage device and making it orientate to a predetermined location, the engagement pawl of said piece of stop doubling is inserted into said hollow through said through tube. Storage device stationing equipment of the computer constituted so that said screw bar might be thrust into said screw hole through said through-hole and said storage device could be fixed to a predetermined location.
[Claim 2] The housing which holds said storage device is storage device stationing equipment of the computer according to claim 1 which equips with a rotatable side plate the side attachment wall which prepared said piece of a projection.
[Claim 3] Storage device stationing equipment of the computer according to claim 1 which equips with a rotatable side plate the side attachment wall which prepared said piece of a projection while two sets of storage devices were adjoined and installed in ** side by side and preparing said piece of a projection in the housing wall of the side by the side of un-adjoining [of both storage devices], respectively, respectively.

[Detailed explanation of a design]
[0001]
[The technical field to which a design belongs]
This design offers the fixed equipment which can be completed by the attachment and detachment of one screw bar (screw) which made attach/detach to the housing of a storage device still more convenient than before, and prepared the actuation in the side-attachment-wall side of one side of said housing about the fixed equipment of the storage device held in the housing of a computer. By this design, the fault [as / in the conventional fixed device] which must remove inevitably the screw of the-four convenience of a right-and-left both-sides wall is canceled.
[0002]
[Description of the Prior Art]
The gestalt and engine performance of a computer are improved without an intermission, people can obtain now the high effectiveness and the convenience in paperwork, and facilities are expanding them increasingly through the big change of many paperwork methods further.
[0003]
[Problem(s) to be Solved by the Invention]
However, generally a computer is a device with the indispensable storage device of for example, a floppy disk driver, a hard disk driver, an optical disc driver, and others. Therefore, it has the space of a common computer in which all almost hold said storage device. So, the housing of a computer has the frame-like housing in use which the many fabricated with the metal. And the installation method of said storage device is put on the rail block established sideways the right-and-left side, slide on it, and is made to orientate, or starts and removes from the side attachment wall of the space in which said storage device is held. Moreover, it ****s and a hole is stuffed, said storage device is made to fix, and when [in which it removes] sliding on said storage device and four screws are drilled from the outside of a housing subsequently to said storage device, said four screws must be removed in order. Thus, whenever the fault of the fixed technique of the conventional storage device detaches and attached a storage device to a computer each time, the cover plate of the housing exterior of a computer was removed first, actuation which loosens said thread fastening or **** was performed, and after immobilization of said storage device needed to return said cover plate, and was very more troublesome still.
[0004]

Then, in order to avoid the inconvenience of said method, the contractor designed the ** rail used symmetrically, attached this ** rail to the storage device, slides in the slide rail prepared in the computer side in 1 actuation, and was made to make it orientate. Although this method canceled the troublesomeness which operates four screws, of course, it causes cost quantity inevitably, and **** needs it for performing that actuation smoothly, and ordinary users sense the difficulty on actuation and are operating it by the unsuitable approach.

[0005]

It is accomplished in view of said fault, and, as for this design, it offers the storage device stationing equipment of a computer good enough. If the computer storage device is a serial transmission method, when it will be a parallel transmission method, of course, all Attachment and detachment of the storage device can be made convenient, and the actuation can be performed simply and quickly. And it aims at offering the storage device stationing equipment of the computer it was made not to have the fault which operates the screw of-four convenience on both sides like before that what is necessary is just to thrust one screw into one side of the housing of a computer.

[0006]

[Means for Solving the Problem]

This design has the housing which holds the storage device of for example, a floppy disk driver, a hard disk driver, an optical disc driver, and others, mostly, prepares the piece of a projection of the wall surface of one side of space which holds said storage device of this housing which has in the center a screw hole (hole with which the thread groove was cut), and has drilled the through tube in the location a little distant from the both ends of this piece of a projection. Moreover, the hollow is prepared in the wall surface of the condition of the storage device which stands face to face against this through tube. And it has formed in the shelf 12 which the right angle is mostly equipped with the piece of folding which begins to be prolonged a little as bending, and one piece of stop doubling which has further the engagement pawl of the cross direction of this piece of folding which projects in the center mostly to both ends, and opening of some side attachment walls which counter the lower part of this piece of stop doubling and this is carried out, and is bent mostly inside at a right angle, and supports the edge of said storage device. In addition, the through-hole which lets said screw pass is drilled in the part which counters said screw hole of said piece of stop doubling. It **, after making said shelf meet, sliding on said storage device and making it orientate to a predetermined location, the engagement pawl of said piece of stop doubling is inserted into said hollow through said through tube, and if a screw is thrust into said screw hole through said through-hole and stopped firmly, said storage device will be fixed to a predetermined location.

[0007]

[The gestalt of implementation of a design]

Hereafter, the gestalt of operation of this design is explained to a detail, referring to a drawing.

Drawing 1 is the important section appearance perspective view of the computer which applied the storage device stationing equipment of the computer of this design. In this drawing, the housing 1 of a computer has the hold space 11 of a storage device 2, and has formed the piece 3 of a projection which has a screw hole 31 in the center on the 1 side attachment wall surrounding this hold space 11. Moreover, the through tube 4 is drilled in the location a little distant from the both ends of this piece 3 of a projection, respectively.

[0008]

Drawing 2 is the assembly drawing showing the principal part of the storage device stationing equipment of the computer of this design. The piece 51 of folding which begins to be mostly prolonged a little as bending at a right angle in both ends in this drawing, Furthermore, it has one piece 5 of stop doubling which has the engagement pawl 52 of the cross direction of this piece 51 of folding which projects in the center mostly. Some side attachment walls which counter the lower part of said piece 5 of stop doubling and this are formed in the shelf 12 which opening is carried out, and is bent mostly inside at a right angle, and supports the edge of said storage device 2. In addition, this shelf 12 may fix a L character-like rail to the interior with the binding means of joining, adhesion, riveting, and others, without carrying out opening of said some of side attachment walls. Moreover, the through-hole 53 which lets a screw 6 pass is drilled in the part which counters said screw hole 31 of said piece 5 of stop doubling. And the hollow 21 (drawing 3) is formed in the wall surface of the condition of the storage device 2 which stands face to face against said through tube 4.

[0009]

It **, after making said shelf 12 meet, sliding on said storage device 2 and making it orientate to a predetermined location, the engagement pawl 52 of said piece 5 of stop doubling is inserted into said hollow 21 through said through tube 4, and if said screw 6 is thrust into said screw hole 31 through said through-hole 53 and is stopped firmly, said storage device 2 will be fixed to a predetermined location. Furthermore, when using said fixed equipment as shown in drawing 3 in order to consider as effective fixed equipment, one rotatable side plate 13 may be formed in the housing 1 of said computer at the side of said piece 3 of a projection. If it does in this way, it is not necessary to make it not open the whole outer cover plate of a housing like the conventional actuation, and actuation will become very convenient in the

case of the actuation.
[0010]
drawing 4 applies this design and the application which installed two storage devices is shown -- it is a cross-section outline top view a part. When two sets of storage devices are installed, naturally the hold space 11 of a storage device is also installed. The 1 side of both storage devices adjoins **. And the piece 3 of a projection is formed in the housing wall of the side by the side of un-adjoining [of both storage devices], respectively, and it is made to be the same as that of what also showed other configurations to drawing 2 and drawing 3 . After having **(ed), making a shelf 12 meet, sliding on both storage devices and making it orientate to a predetermined location, the engagement pawl 52 of the piece 5 of stop doubling is inserted into a hollow 21 through a through tube 4, and if a screw 6 is thrust into a screw hole 31 through a through-hole 53 and is stopped firmly, both the storage devices 2 and 2 will be fixed to a predetermined location like the case of fixing of one set of the storage device mentioned above. The configuration and effectiveness of the rotatable side plate 13 are also the same as that of the above-mentioned.
[0011]
[Effect of the Device]
After according to this design making a shelf meet, sliding on a storage device and making it orientate to a predetermined location as explained to the detail above, the engagement pawl of the piece of stop doubling is inserted into a hollow through a through tube from one side of a housing. If one screw is thrust into a screw hole through a through-hole and stopped firmly, said storage device can be quickly fixed to a predetermined location by easy actuation, and said storage device can be quickly removed by twist operations.

[Translation done.]